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Sep 17, 2002

DERWENT-ACC-NO: 2000-377427

DERWENT-WEEK: 200276

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**TITLE:** Aqueous solution for electroplating with tin-zinc alloy contains zinc and tin ions, aliphatic carboxylic acid and/or alkali salts thereof and a mixture of anionic and nonionic surfactants

INVENTOR: JORDAN, M; STRUBE, G

**PATENT-ASSIGNEE:**

ASSIGNEE	CODE
SCHLOETTER GMBH & CO KG MAX	SCHL
JORDAN M	JORDI
STRUBE G	STRUI

PRIORITY-DATA: 1998DE-1052219 (November 12, 1998)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2002530528 W	September 17, 2002		018	C25D003/60
DE 19852219 C1	May 11, 2000		007	C25D003/60
WO 200029645 A2	May 25, 2000	G	000	C25D003/00
AU 200017752 A	June 5, 2000		000	C25D003/00
EP 1137825 A2	October 4, 2001	G	000	C25D003/00
CZ 200101633 A3	December 12, 2001		000	C25D003/00
CN 1321205 A	November 7, 2001		000	C25D003/60
KR 2001086017 A	September 7, 2001		000	C25D003/02
US 20020046954 A1	April 25, 2002		000	C25D003/56
EP 1137825 B1	September 11, 2002	G	000	C25D003/00
DE 59902696 G	October 17, 2002		000	C25D003/00

**DESIGNATED-STATES:** AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

**APPLICATION-DATA:**

PUB-NO	APPL-DATE	APPL-NO	descriptor
JP2002530528W	November 12, 1999	<u>1999WO-EP08724</u>	
JP2002530528W	November 12, 1999	2000JP-0582620	
JP2002530528W		WO 200029645	Based on
DE 19852219C1	November 12, 1998	1998DE-1052219	
WO 200029645A2	November 12, 1999	<u>1999WO-EP08724</u>	
AU 200017752A	November 12, 1999	2000AU-0017752	
AU 200017752A		WO 200029645	Based on
EP 1137825A2	November 12, 1999	1999EP-0960973	
EP 1137825A2	November 12, 1999	<u>1999WO-EP08724</u>	
EP 1137825A2		WO 200029645	Based on
CZ 200101633A3	November 12, 1999	<u>1999WO-EP08724</u>	
CZ 200101633A3	November 12, 1999	2001CZ-0001633	
CZ 200101633A3		WO 200029645	Based on
CN 1321205A	November 12, 1999	1999CN-0809795	
KR2001086017A	May 10, 2001	2001KR-0705925	
US20020046954A1	November 12, 1999	<u>1999WO-EP08724</u>	Cont of
US20020046954A1	May 11, 2001	2001US-0854131	
EP 1137825B1	November 12, 1999	1999EP-0960973	
EP 1137825B1	November 12, 1999	<u>1999WO-EP08724</u>	
EP 1137825B1		WO 200029645	Based on
DE 59902696G	November 12, 1999	1999DE-0502696	
DE 59902696G	November 12, 1999	1999EP-0960973	
DE 59902696G	November 12, 1999	<u>1999WO-EP08724</u>	
DE 59902696G		EP 1137825	Based on
DE 59902696G		WO 200029645	Based on

INT-CL (IPC) : C25 D 3/00; C25 D 3/02; C25 D 3/56; C25 D 3/60

ABSTRACTED-PUB-NO: DE 19852219C

BASIC-ABSTRACT:

NOVELTY - Aqueous solutions for electroplating with tin-zinc alloys containing, in addition to (a) zinc(II) and (b) tin(II) ions, (c) aliphatic carboxylic acids and/or their alkali salts, (d) anionic surfactants and (e) nonionic surfactants.

USE - For electroplating with tin-zinc alloys, preferably to give alloy coatings with a zinc content of 10-50 wt. % (claimed). The corrosion-resistant coatings obtained are used in the motor vehicle, broadcasting, electrical and building industries.

ADVANTAGE - A cyanide-free electroplating bath which enables the deposition of light-colored, defect-free tin/zinc coatings with a low consumption of energy and within a wide range of possible plating conditions.

ABSTRACTED-PUB-NO:

US20020046954A

EQUIVALENT-ABSTRACTS:

NOVELTY - Aqueous solutions for electroplating with tin-zinc alloys containing, in addition to (a) zinc(II) and (b) tin(II) ions, (c) aliphatic carboxylic acids and/or their alkali salts, (d) anionic surfactants and (e) nonionic surfactants.

USE - For electroplating with tin-zinc alloys, preferably to give alloy coatings with a zinc content of 10-50 wt. % (claimed). The corrosion-resistant coatings obtained are used in the motor vehicle, broadcasting, electrical and building industries.

ADVANTAGE - A cyanide-free electroplating bath which enables the deposition of light-colored, defect-free tin/zinc coatings with a low consumption of energy and within a wide range of possible plating conditions.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: AQUEOUS SOLUTION ELECTROPLATING TIN ZINC ALLOY CONTAIN ZINC TIN ION ALIPHATIC CARBOXYLIC ACID ALKALI SALT MIXTURE ANION NONIONIC SURFACTANT

DERWENT-CLASS: A25 A97 E19 L03 M11 V04 W02 X25

CPI-CODES: A10-E01; A12-W12E; E05-A; E06-D02; E07-D04C; E10-A09B1; E10-A09B2; E10-B03; E10-C04C; E10-D01D; E10-E04M1; E10-E04M3; E10-F02C; L03-A; M11-A06;

EPI-CODES: V04-R02B; V04-X01B; W02-G09; X25-Q;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

A111 A960 C710 H4 H401 H481 H8 J0 J013 J1  
J173 M280 M313 M321 M332 M344 M349 M381 M391 M411  
M510 M520 M530 M540 M620 M630 M782 M904 M905 Q454  
Q463 R023

Specfic Compounds

04004K 04004M A00DBK A00DBM

Registry Numbers

0419U

Chemical Indexing M3 \*02\*

Fragmentation Code

H4 H401 H481 H8 J0 J013 J1 J173 M280 M313  
M321 M332 M344 M349 M381 M391 M416 M620 M782 M904  
M905 M910 Q454 Q463 R023

Specfic Compounds

00419K 00419M 07029K 07029M

Registry Numbers

0419U

Chemical Indexing M3 \*03\*

Fragmentation Code

J0 J011 J1 J171 M210 M211 M212 M213 M214 M215  
M216 M220 M221 M222 M223 M224 M225 M226 M231 M232  
M233 M262 M281 M320 M416 M620 M782 M904 M905 Q454  
Q463 R023

Markush Compounds

200017-80706-K 200017-80706-M

Chemical Indexing M3 \*04\*

Fragmentation Code

D012 D621 F012 F431 G010 G021 G100 G221 J0 J011  
J1 J111 J131 M280 M320 M412 M413 M414 M510 M511  
M520 M521 M530 M531 M540 M782 M904 M905 Q454 Q463  
R023

Markush Compounds

200017-80705-K 200017-80705-M

Chemical Indexing M3 \*05\*

Fragmentation Code

G020 G021 G022 G029 G221 G299 H541 H581 H582 K0  
K4 K431 K499 M1 M124 M132 M150 M210 M211 M212  
M213 M214 M215 M216 M231 M232 M233 M240 M280 M281  
M311 M312 M321 M322 M332 M342 M373 M383 M391 M392  
M414 M510 M520 M532 M533 M540 M782 M904 M905 Q454  
Q463 R023

Markush Compounds

200017-80704-K 200017-80704-M

Chemical Indexing M3 \*06\*

## Fragmentation Code

G020 G021 G029 G221 G299 H541 H581 H582 K0 K4  
K431 K499 M1 M124 M132 M150 M210 M211 M212 M213  
M214 M215 M216 M231 M232 M233 M240 M280 M281 M311  
M312 M321 M322 M332 M342 M373 M383 M391 M392 M414  
M510 M520 M532 M533 M540 M782 M904 M905 Q454 Q463  
R023

## Markush Compounds

200017-80703-K 200017-80703-M

## Chemical Indexing M3 \*07\*

## Fragmentation Code

G001 G002 G010 G011 G012 G013 G014 G015 G016 G019  
G020 G021 G022 G029 G040 G100 G111 G221 H102 H141  
H181 H401 H481 H5 H541 H581 H582 H583 H584 H594  
H598 H8 K431 K499 M111 M112 M210 M211 M212 M213  
M214 M215 M216 M220 M221 M222 M223 M224 M225 M226  
M231 M232 M233 M240 M271 M272 M273 M280 M281 M312  
M313 M314 M315 M321 M322 M323 M331 M332 M333 M342  
M383 M392 M393 M414 M416 M510 M520 M531 M532 M540  
M620 M782 M904 M905 Q454 Q463 R023

## Markush Compounds

200017-80701-K 200017-80701-M

## Chemical Indexing M3 \*08\*

## Fragmentation Code

G010 G011 G012 G013 G100 H541 H602 H603 H641 J4  
J431 M210 M211 M240 M272 M280 M281 M320 M414 M510  
M520 M531 M540 M782 M904 M905 Q454 Q463 R023

## Markush Compounds

200017-80702-K 200017-80702-M

## Chemical Indexing M3 \*09\*

## Fragmentation Code

G010 G020 G021 G040 G100 G221 H721 J471 J581 M210  
M211 M212 M213 M214 M215 M216 M231 M232 M233 M262  
M280 M281 M311 M312 M321 M332 M342 M372 M391 M414  
M510 M520 M531 M540 M782 M904 M905 Q454 Q463 R023

## Markush Compounds

200017-80707-K 200017-80707-M

## UNLINKED-DERWENT-REGISTRY-NUMBERS: 0419U

## ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; P8004 P0975 P0964 D01 D10 D11 D50 D82 F34 ; H0000 ; H0237\*R ;  
M9999 M2153\*R ; M9999 M2200 ; M9999 M2799 ; M9999 M2379\*R ; S9999 S1616 S1605 Polymer  
Index [1.2] 018 ; ND01 ; Q9999 Q8742 ; Q9999 Q9110 ; K9632 K9621 ; K9325 Polymer Index [1.3]  
018 ; F16 K\* 1A Na S\* 6A

## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-114376

Non-CPI Secondary Accession Numbers: N2000-283378